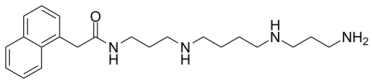
Data Sheet

Product Name:	Naspm
Cat. No.:	CS-3629
CAS No.:	122306-11-0
Molecular Formula:	C22H34N4O
Molecular Weight:	370.53
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Solubility:	DMSO : 10 mg/mL (26.99 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Naspm (1-Naphthyl acetyl spermine), a synthetic analogue of Joro spider toxin, is a calcium permeable AMPA (**CP-AMPA**) receptors antagonist. **In Vitro:** NASPM selectively suppresses the inwardly rectifying and Ca^{2+}-permeable AMPA receptors expressed in type II neurons. It has no effect on AMPA receptors in type I neurons. At -60 mV, NASPM suppresses AMPA receptors in type II neurons with an IC_{50} value of 0.33 μM. The blocking effect of NASPM on the Ca^{2+}-permeable AMPA receptors is use and voltage-dependent[1].

References:

[1]. Koike M, et al. Blocking effect of 1-naphthyl acetyl spermine on Ca2+-permeable AMPA receptors in cultured rat hippocampal neurons. Neurosci Res. 1997 Sep;29(1):27-36.

CAIndexNames:

1-Naphthaleneacetamide, N-[3-[[4-[(3-aminopropyl)amino]butyl]amino]propyl]-

SMILES:

O=C(NCCCNCCCCNCCCN)CC1=C2C=CC=CC2=CC=C1

Caution: Product has not been fully validated for medical applications. For research use only.

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